

MD 27 IS ASSUMED TO RUN  
IN A NORTH-SOUTH DIRECTION

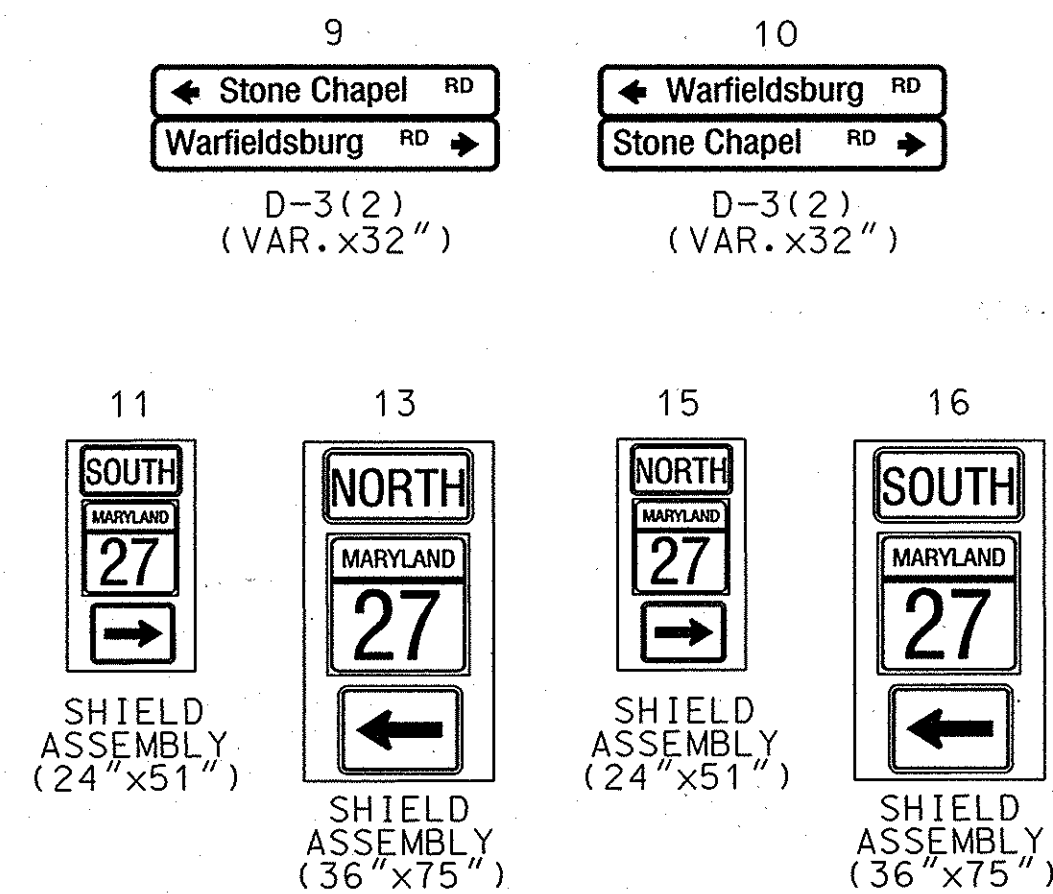
#### PROPOSED LED SIGNALS

1,2,3,4 5,6,7,8  
(Y) (R)  
12" 12"

#### EXISTING SIGNS TO REMAIN

12,14  
STOP

#### PROPOSED SIGNS



LINE HEIGHTS (LH) 1  
COMMUNICATION 1 - 20'-6"  
COMMUNICATION 2 - 20'-9"  
COMMUNICATION 3 - 21'-0"  
SECONDARY - 30'+  
PRIMARY - 35'+

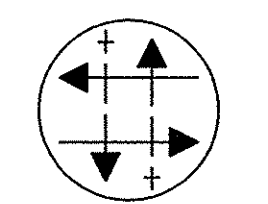
LINE HEIGHTS (LH) 2  
COMMUNICATION 1 - 19'-2"  
SECONDARY - 30'+  
PRIMARY - 35'+

LINE HEIGHTS (LH) 3  
COMMUNICATION 1 - 20'-2"  
COMMUNICATION 2 - 20'-4"  
COMMUNICATION 3 - 20'-5"

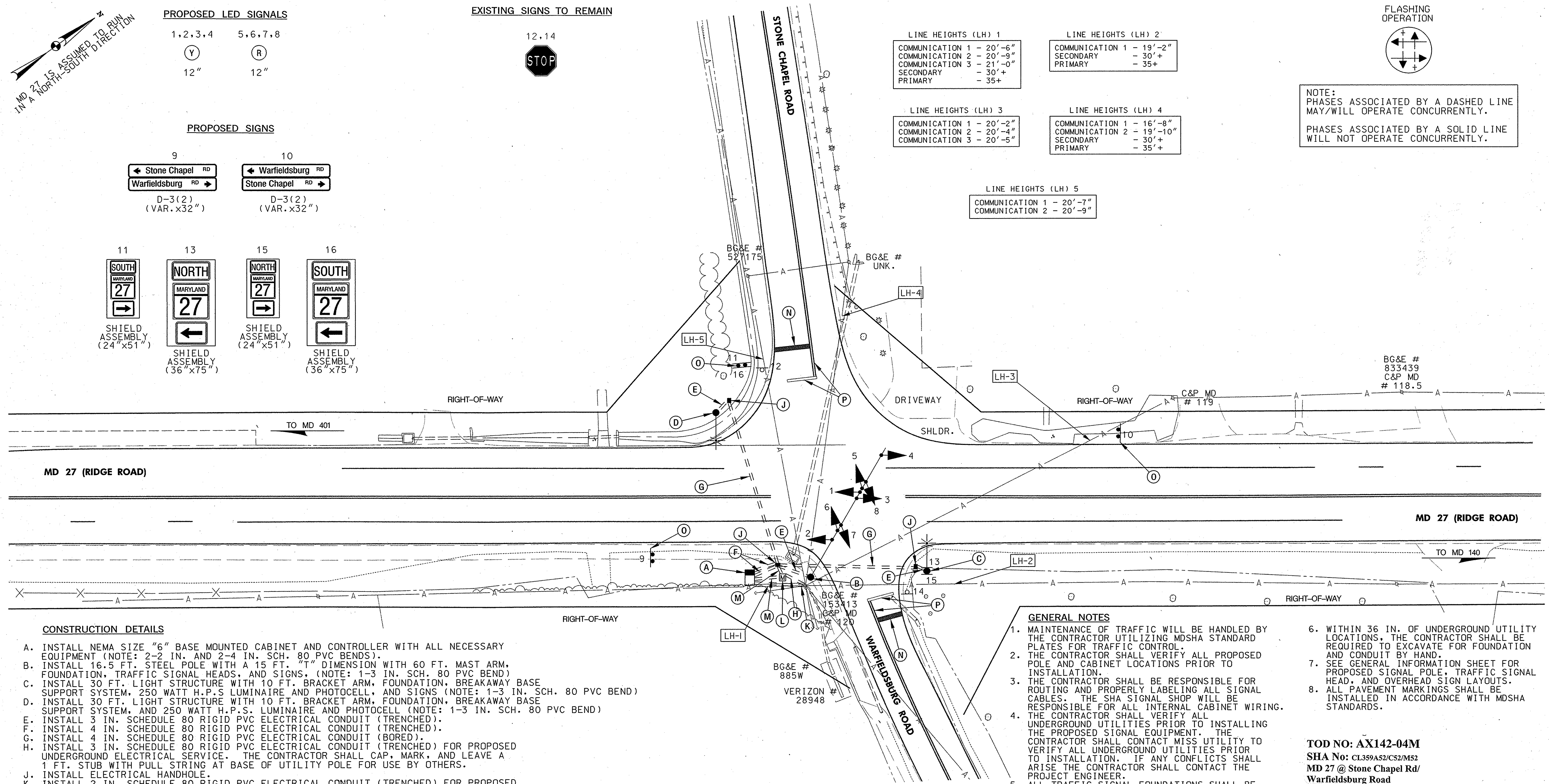
LINE HEIGHTS (LH) 4  
COMMUNICATION 1 - 16'-8"  
COMMUNICATION 2 - 19'-10"  
SECONDARY - 30'+  
PRIMARY - 35'+

LINE HEIGHTS (LH) 5  
COMMUNICATION 1 - 20'-7"  
COMMUNICATION 2 - 20'-9"

FLASHING  
OPERATION



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE  
MAY/WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE  
WILL NOT OPERATE CONCURRENTLY.



#### CONSTRUCTION DETAILS

- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. SCH. 80 PVC BENDS).
- INSTALL 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION WITH 60 FT. MAST ARM, FOUNDATION, TRAFFIC SIGNAL HEADS, AND SIGNS (NOTE: 1-3 IN. SCH. 80 PVC BEND).
- INSTALL 30 FT. LIGHT STRUCTURE WITH 10 FT. BRACKET ARM, FOUNDATION, BREAKAWAY BASE SUPPORT SYSTEM, 250 WATT H.P.S. LUMINAIRE AND PHOTOCCELL, AND SIGNS (NOTE: 1-3 IN. SCH. 80 PVC BEND).
- INSTALL 30 FT. LIGHT STRUCTURE WITH 10 FT. BRACKET ARM, FOUNDATION, BREAKAWAY BASE SUPPORT SYSTEM, AND 250 WATT H.P.S. LUMINAIRE AND PHOTOCCELL (NOTE: 1-3 IN. SCH. 80 PVC BEND).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. THE CONTRACTOR SHALL CAP, MARK AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL METERED SERVICE PEDESTAL (NOTE: 2-2 IN. AND 1-4 IN. SCH. 80 PVC BENDS).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- INSTALL GROUND MOUNTED SIGNS ON TWO 4 IN. X 6 IN. WOOD SUPPORTS.
- REMOVE EXISTING PAVEMENT MARKINGS.

#### GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION. IF ANY CONFLICTS SHALL ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- SEE GENERAL INFORMATION SHEET FOR PROPOSED SIGNAL POLE, TRAFFIC SIGNAL HEAD, AND OVERHEAD SIGN LAYOUTS.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.

TOD NO: AX142-04M  
SHA No: CL359A52/C52/M52  
MD 27 @ Stone Chapel Rd/  
Warfieldsburg Road

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 27 (RIDGE ROAD) at  
STONE CHAPEL ROAD/WARFIELDSBURG ROAD

#### TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE 03/2007 CONTRACT NO. AX1425185

DESIGNED BY MCG COUNTY CARROLL  
DRAWN BY CCW LOGMILE 06002714.52  
CHECKED BY RAB T.I.M.S. NO. 1071  
F.A.P. NO. TOD NO.

DRAWING NO. TS-4570 OF SHEET NO. 1 OF 2

APPROVALS	REVISIONS
TEAM LEADER Mickie R. Riddle 4/25/07	
ASST. DIR. CHIEF Mickie R. Riddle 4/25/07	
DIVISION CHIEF Wendy Wood 4/25/07	
OFFICE DIRECTOR Wendy Wood 4/25/07	

PLOTTED: Monday, April 23, 2007 AT 01:12 PM  
FILE: I:\PROJECTS\03125185\03125185\_0049\Drawings\TRA\p83-P000\_MD27.dgn

STV Incorporated  
engineers/architects/planners/construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

UTILITY LEGEND			
—E—E—	ELECTRIC CABLES	—SD—SD—	STORM DRAIN
—A—A—	AERIAL CABLES	—G—G—	GAS MAIN
—T—T—	TELEPHONE CABLES	—W—W—	WATER MAIN
—F—F—	FIBER-OPTIC	—S—S—	SEWER MAIN